P-SP250

TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

PETROCHEM – SPACER POWDER 250

PRODUCT DESCRIPTION

P-SP250 is a dry spacer system base powder for water based primary cementing formulations. When properly formulated, it improves mud displacement, limits intermixing, and supports density control in low to moderate temperature applications.

APPLICATIONS

- Primary cementing spacer and preflush formulations for mud displacement and wellbore cleanup
- Freshwater, brine, and seawater systems requiring cement compatibility

TECHNICAL DATA

- Develops low shear rate viscosity and yield point according to concentration and system design
- Maintains density uniformity during mixing and pumping
- Helps reduce interfacial contamination and channeling during displacement
- Compatible with barite and hematite; suitable across a range of spacer densities, subject to laboratory validation

FUNCTION IN SPACER SYSTEMS

- Controls rheology and suspends weighting materials and drilled solids under static and circulating conditions
- Stabilizes fluid structure to minimize settling and sag while maintaining hydraulic separation between drilling fluid and cement slurry
- Base component requiring base fluid, surfactants, and density control additives; not a complete spacer fluid

TYPICAL PROPERTIES

- Appearance: Tan Powder
- Specific Gravity: 2.28
- Temperature Range: < 250°F (121°C)

RECOMMENDED TREATMENT

- Typical concentration: 0.5–1.5% BWOW (approximately 0.2–0.6% BWOC equivalent in typical slurry designs), depending on required rheology and density
- Disperse into freshwater, brine, or seawater under moderate to high agitation; apply sufficient shear to develop rheological structure before adding barite or hematite to target density.
- Select surfactants for drilling fluid type and compatibility; verify final formulation and performance through laboratory testing under representative well conditions.

PACKAGING

- Packaged in 40 × 50 lb (22.7 kg) sacks per pallet

SAFETY

- Refer to the Safety Data Sheet (SDS) prior to handling or use

NOTICE

The information provided herein is offered in good faith; however, no warranties, express or implied, are made. Users are responsible for determining product suitability and performance under actual operating conditions.